CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No : CTCE/BBMP/W.No.04/HSP/CSR-06/862c/CEMENT/2015-16 Date: 10.06.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. H.S. Palakshamurthy** No. 1, 2nd Main, BDA Layout, Pattegarapalya, Near Prashanthnagara, Bangalore.
*NAME OF THE WORK	:	Maintenance of BBMP Office Buildings in Ward No. 04, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/YNTSD/93/2015-16 Dated: 08.06.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	08.06.2015
PERIOD OF TESTING	:	08.06.2015 to 10.06.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

AE W-4

*Information is furnished by the Customer/Representative.

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****

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T-2377

Job No.: CTCE/BBMP/W.No.04/HSP/CSR-06/862c/SAND-Gradation/2015-16 : 10.06.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. H.S. Palakshamurthy**
No. 1, 2nd Main, BDA Layout, Pattegarapalya, Near Prashanthnagara, Bangalore.

*** Name of Work** : Maintenance of BBMP Office Buildings in Ward No. 04, BBMP, Bangalore.

Reference : BBMP/AEE/YNTSD/93/2015-16 Dated: 08.06.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 08.06.2015

Date of Testing : 10.06.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.15	90-100	90-100	90-100	95-100
2.36	77.81	60-95	75-100	85-100	95-100
1.18	50.26	30-70	55-90	75-100	90-100
600 Micron	20.40	15-34	35-59	60-79	80-100
300 Micron	9.55	5-20	8-30	12-40	15-50
150 Micron	4.18	0-10	0-10	0-10	0-15

AE LI

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.04/HSP/CSR-06/862c/AGG/GR/2015-16 : 11.06.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. H.S. Palakshamurthy** No. 1, 2nd Main, BDA Layout, Pattegarapalya, Near Prashanthnagara, Bangalore.
* Name of Work	: Maintenance of BBMP Office Buildings in Ward No. 04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNTSD/93/2015-16 Dated: 08.06.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 08.06.2015
Date of Testing	: 11.06.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.71	95-100	85-100
20	48.46	30-70	0-20
10	15.18	10-35	0-5
4.75	1.94	0-5	-

AE LL-4

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.04/HSP/CSR-06/862c/AGG/GR/2015-16 : 11.06.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. H.S. Palakshamurthy** No. 1, 2nd Main, BDA Layout, Pattegarapalya, Near Prashanthnagara, Bangalore.
* Name of Work	: Maintenance of BBMP Office Buildings in Ward No. 04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNTSD/93/2015-16 Dated: 08.06.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 08.06.2015
Date of Testing	: 11.06.2015

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.06	95-100	85-100
10	33.34	25-55	0-20
4.75	3.70	0-10	0-5

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Remarks : This sample is under Graded specific limits

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Job No. CTCE/BBMP/W.No.04/HSP/ STEEL/2015-16 15.06.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. H.S. Palakshamurthy** No. 1, 2nd Main, BDA Layout, Pattegarapalya, Near Prashanthnagara, Bangalore.
Name of the Work	:	Maintenance of BBMP Office Buildings in Ward No. 04, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNTSD/93/2015-16 Dated: 08.06.2015
Date of Test	:	15.06.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	511	554	13.05	O.K	O.K

AE W-4

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Job No. CTCE/BBMP/W.No.04/HSP/ STEEL/2015-16 15.06.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	:	**Mr. H.S. Palakshamurthy** No. 1, 2nd Main, BDA Layout, Pattegarapalya, Near Prashanthnagara, Bangalore.
Name of the Work	:	Maintenance of BBMP Office Buildings in Ward No. 04, BBMP, Bangalore.
Reference	:	BBMP/AEE/YNTSD/93/2015-16 Dated: 08.06.2015
Date of Test	:	15.06.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

AE Lr 4

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Job No.: CTCE/BBMP/W.No.04/HSP/CSR-06/862c/CUBE/2015-16 25.07.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. H.S. Palakshamurthy** No. 1, 2nd Main, BDA Layout, Pattegarapalya, Near Prashanthnagara, Bangalore.
* Name of the work	: Maintenance of BBMP Office Buildings in Ward No. 04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNTSD/93/2015-16 Dated: 08.06.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 27.06.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
W-4	27.06.2015	25.07.2015	8.132	473.6	21.05
2	27.06.2015	25.07.2015	8.218	506.8	22.52
3	27.06.2015	25.07.2015	8.316	491.5	21.84

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